

SOPRASMART ISO HD 180

TECHNICAL DATA SHEET
140218SCAN1E
(supersedes -1304092SCAN1E)

DESCRIPTION

SOPRASMART ISO HD 180 is a high performance support panel composed of SBS modified bitumen membrane with of a non-woven polyester reinforcement, factory-laminated on a HD polyisocyanurate insulation board. The surface is covered with a thermofusible film.

INSTALLATION

BITUMEN

SOPRASMART ISO HD 180 panel is intalled in a bed of hot bitumen applied with a mop.

ADHESIVE

SOPRASMART ISO HD 180 panel is adhered with adhesive **COLTACK** or **DUOTACK**.

MECHANICALLY FASTENED

SOPRASMART ISO HD 180 panel is mechanically fastened to steel deck with **SOPRAFIX** screws and plates.

- Mechanical fasteners must be installed on the distinctive line of the membrane side selvedge.
- On a steel deck, fasteners must be installed on the upper part of the steel ribs. Install membranes perpendicular to the ribs.

* For more details about the required number of adhesive or mechanical fasteners, consult the Wind Uplift Resistance Testing reports according to Canadian standard CSA A123.21-10 or publications according to FM 4470 (RoofNav Database) including recommendations for corners and perimeters listed in the PLPDS 1-29 from Factory Mutual.

DUO SELVEDGE

Over the entire width of **DUO SELVEDGE**, 60 % of the surface is self-adhesive, which protects components under the base sheet. The remaining surface of the selvedge (40 %) is covered by a thermofusible plastic film to seal overlap by heat-welding with a propane torch or with the **SOPRAMATIC** automatic hot-air welder.

FOR COMPLETE INFORMATION ON PRODUCT INSTALLATION, PLEASE CONSULT YOUR SOPREMA REPRESENTATIVE.

PACKAGING

Specifications	SOPRASMART ISO HD 180
Total thickness (Membrane & Board)	15 mm (19/32 in)
Membrane reinforcement	Non-woven polyester
Insulation dimensions	0.914 m x 2.44 m (3 ft x 8 ft)
Total weight	4.5 kg/m ² (1.0 lb/ft ²)
Selvedge width	75 mm (3 in)
Surface	Thermofusible film
Underface	Polyisocyanurate HD
Units per skid	70

(All values are nominal)



SYSTÈME QUALITÉ
ISO 9001
QUALITY SYSTEM



SYSTÈME ENVIRONNEMENT
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PROPERTIES

Properties	Standards	Membrane
Membrane thickness	-	2.2 mm (86.6 mil)
Breaking strength, MD/XD	CAN/CGSB-37.56-M, 9 th draft	17.0 / 12.5 kN/m
Ultimate elongation, MD/XD	CAN/CGSB-37.56-M, 9 th draft	60 / 65 %
Tear strength	ASTM D5601	60 N
Cold bending - Initial - 90 days at 70 °C	CAN/CGSB-37.56-M, 9 th draft	-30 °C (-22 °F) -30 °C (-22 °F)

(All values are nominal)

Properties	Standards	POLYISO
Board thickness	-	12.7 mm (1/2 in)
Thermal resistance (R-Value) at 24 °C (75 °F)	ASTM C 518	RSI 0.44 (R-2.5)
Compressive strength	ASTM D 1621	> 689 kPa (90 psi)
Dimensional stability	ASTM D 2126	< 0.5 % linear change
Water absorption	ASTM C 209	< 3 % volume
Resistance to mold	ASTM D 3273	Passed

(All values are nominal)



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